

FIG.1

FIG. 2A

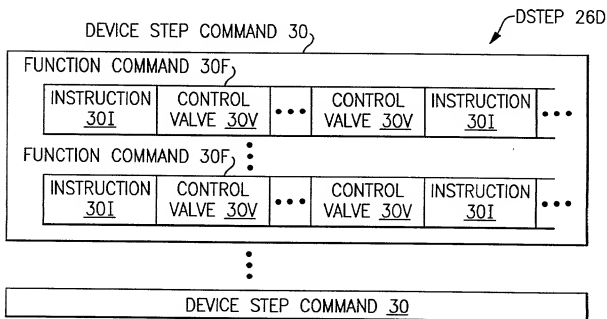
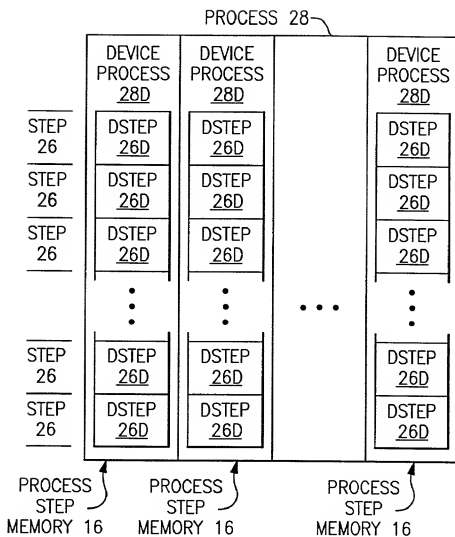


FIG. 2B

LINK 24

STEP AD 36A

DATA PORT 36D

STEP COMMANDS 30

CONTROL OUTPUTS 200
DEVICE RESPONSES 30R

PROCESS MEMORY 16

DEVICE PROCESS 28D

STEP CONTROLLER 32

LINK INTERFACE 34

DEVICE INTERFACE 18

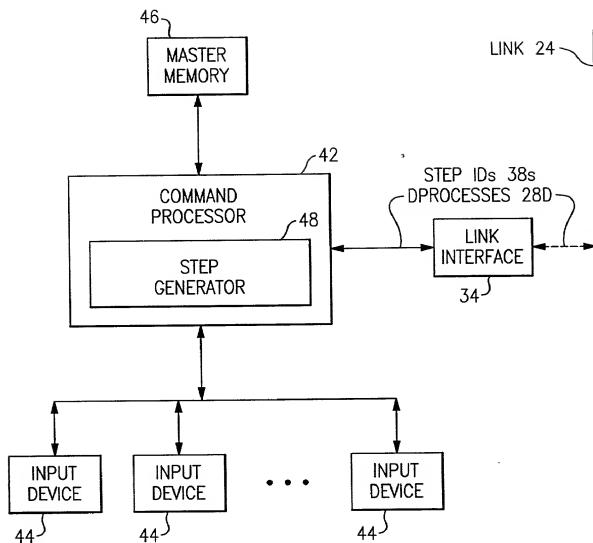
PROCESS DEVICE 12

L CONTROL 30

STEP IDs 38s
DSTEPS 26D
DEVICE IDs 38D
STEP COMPLETE 40C
DCONTROLLER ID 40I

DCONTROLLER 14

FIG.3



MASTER 22

FIG.4

CONTROL MASTER

OPERATING MODE
RECALL (MEM-LOC) 27
CURRENT PGM-GRIPPER
DISPOSITION: RUNNING/STEP
STATUS: ARRIVED AT DEST.
INSTRUCTION/PROMPT:

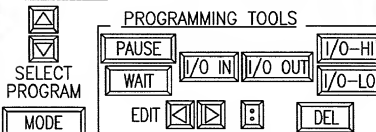
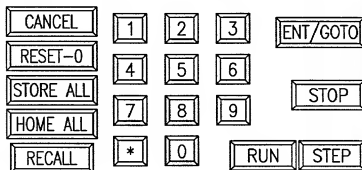


FIG.5